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In the United States Patent and Trademark Office

Series Number: 10/807,476
Appn. Filed: March 24, 2004
Applicant: Hoton How
Appn. Title: Method and Apparatus of Obtaining Balanced Phase Shift
Examiner/GAU: Stephen E. Jones /2817

Mailed: October 12, 2005
At: Boston, MA

Request for Reconsideration

Assistant Commissioner for Patents:
Alexandria, VA 22313-1450

Sir:

In response to the Official Letter mailed October 4, 2005 the Applicant thereby makes the following statements in defending the present Application against the Prior Art, Hoton How, US Patent No. 6,483,393, as enumerated by the Examiner:

The Prior Art NEVER teaches to use TWO resonators to obtain balanced phase-shift angles. Instead, it showed the uniform operation that discrete phase angles are selectable by imposing switches on the peripheral of a nonreciprocal resonator showing symmetry. Although, a bias field can be used along with the resonator operation, it has nothing to do with the phase-shift action; it is only effective in changing the resonance condition thereby enabling the device to be tuned over frequencies.

In contrast, the Present Application teaches to obtain continuous phase angles not to use switches. TWO bias fields are required to induce respective BALANCED actions in two counter-reacting resonators so as NOT to change the operation frequency, which result in phase shifts of the transmission signal with a constant amplitude. The Prior Art demands a strict symmetry among the intended circuit ports, whereas the Present Application does not invoke such a symmetry, so long as the balanced operation of the resonator is retained in operation.